

**PRO ECO3 960W 24V 40A**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)


The new PROeco 2nd generation power supplies maximise the availability of automation applications. The twelve-part series offers standard functions: with high performance, efficiency and suitability for many systems. The three-colour LED makes service activities and the integration of PROeco devices particularly easy. The series is compatible with DC UPS, electronic load monitoring and diode modules and is suitable for setting up power management systems. The compact design suits space-constrained applications, such as flat control cabinets in the field.

**General ordering data**

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| Version             | Power supply, switch-mode power supply unit, 24 V       |
| Order No.           | <a href="#">1469560000</a>                              |
| Type                | PRO ECO3 960W 24V 40A                                   |
| GTIN (EAN)          | 4050118275728                                           |
| Qty.                | 1 items                                                 |
| Delivery status     | This article will no longer be available in the future. |
| Available until     | 2026-12-30T00:00:00+01:00                               |
| Alternative product | <a href="#">PRO ECO3 960W 24V 40A II</a>                |

## PRO ECO3 960W 24V 40A

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## Technical data

## Approvals

Approvals



|                         |                            |
|-------------------------|----------------------------|
| ROHS                    | Conform                    |
| UL File Number Search   | <a href="#">UL Website</a> |
| Certificate No. (cURus) | E255651                    |
| Certificate no. (cULus) | E258476                    |

## Dimensions and weights

|            |        |                 |             |
|------------|--------|-----------------|-------------|
| Depth      | 120 mm | Depth (inches)  | 4.7244 inch |
| Height     | 125 mm | Height (inches) | 4.9212 inch |
| Width      | 160 mm | Width (inches)  | 6.2992 inch |
| Net weight | 2899 g |                 |             |

## Temperatures

|                     |                |                       |                |
|---------------------|----------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -25 °C...70 °C |
|---------------------|----------------|-----------------------|----------------|

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 6d8cdf22-8230-4af8-86c8-3558c716666d |

## Rated data UL

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E255651 |
|-------------------------|---------|

## Input

|                                                      |                                                                                              |            |  |
|------------------------------------------------------|----------------------------------------------------------------------------------------------|------------|--|
| Connection system                                    | Screw connection                                                                             |            |  |
| AC input voltage range                               | 3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC                                              |            |  |
| Recommended back-up fuse                             | 6 A / DI, safety fuse<br>10 A, Char. B, circuit breaker<br>6...8 A, Char. C, circuit breaker |            |  |
| Frequency range AC                                   | 47...63 Hz                                                                                   |            |  |
| Rated input voltage                                  | 3x 400...3x 500 V AC (wide-range input)                                                      |            |  |
| Surge protection                                     | Varistor                                                                                     |            |  |
| Input fuse (internal)                                | Yes                                                                                          |            |  |
| DC input voltage range                               | 450...800 V DC                                                                               |            |  |
| Inrush current                                       | max. 40 A                                                                                    |            |  |
| Current consumption in relation to the input voltage | Voltage type                                                                                 | 3-phase AC |  |
|                                                      | Input voltage                                                                                | 400 V      |  |
|                                                      | Input current                                                                                | 2.68 A     |  |
|                                                      | Voltage type                                                                                 | 3-phase AC |  |
|                                                      | Input voltage                                                                                | 500 V      |  |
|                                                      | Input current                                                                                | 2.15 A     |  |
|                                                      | Voltage type                                                                                 | DC         |  |
|                                                      | Input voltage                                                                                | 800 V      |  |
|                                                      | Input current                                                                                | 1.37 A     |  |
|                                                      | Voltage type                                                                                 | DC         |  |
|                                                      | Input voltage                                                                                | 450 V      |  |

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|---------------------------|---------------|--------|
|                           | Input current | 2.37 A |
| Nominal power consumption | 1067 VA       |        |

## Output

|                                      |                                |                                    |                        |
|--------------------------------------|--------------------------------|------------------------------------|------------------------|
| Output power                         | 960 W                          | Connection system                  | Screw connection       |
| Rated output voltage                 | 24 V DC $\pm$ 1 %              | Residual ripple, breaking spikes   | <50 mVPP @ 24 V DC, IN |
| Parallel connection option           | yes, max. 3                    | Overload protection                | Yes                    |
| Output voltage, max.                 | 28 V                           | Output voltage, min.               | 22 V                   |
| Output voltage, note                 | (adjustable via potentiometer) | Nominal output current for Unom    | 40 A @ 50 °C           |
| Capacitive load                      | unrestricted                   | Protection against inverse voltage | Yes                    |
| Continuous output current @ UNominal | 40 A @ 50 °C, 24 A @ 70 °C     | Ramp-up time                       | ≤ 100 ms               |

## General data

|                                 |                                               |                                        |                                                                                                                                                    |
|---------------------------------|-----------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Power factor (approx.)          | > 0.55 @ 3 x 500 V AC / > 0.65 @ 3 x 400 V AC | AC failure bridging time @ Inom        | > 25 ms at 3 x 500 V AC / > 20 ms at 3 x 400 V AC                                                                                                  |
| Degree of efficiency            | 90%                                           | Protection degree                      | IP20                                                                                                                                               |
| Surge voltage category          | II                                            | Mounting position, installation notice | on terminal rail TS 35                                                                                                                             |
| Housing version                 | Metal, corrosion resistant                    | Indication                             | Green LED (Uoutput > 21.6 V DC), Yellow LED (Ioutput > 90 % IRated typ. ), red LED (overload, overtemperature, short-circuit, Uoutput < 20.4 V DC) |
| Earth leakage current, max.     | 3.5 mA                                        | Max. perm. air humidity (operational)  | 5 %...95 % RH                                                                                                                                      |
| Power loss, idling              | 5 W                                           | Short-circuit protection               | Yes                                                                                                                                                |
| Power loss, nominal load        | 95 W                                          | Operating altitude                     | ≤ 3000 m                                                                                                                                           |
| Protection against over-heating | Yes                                           |                                        |                                                                                                                                                    |

## EMC / shock / vibration

|                                             |                           |                                    |                                                                                                                                                          |
|---------------------------------------------|---------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Limiting of mains voltage harmonic currents | According to EN 61000-3-2 | Shock resistance IEC 60068-2-27    | 15 g In all directions                                                                                                                                   |
| Noise emission in accordance with EN55032   | Class B                   | Interference immunity test acc. to | EN 61000-4-2 (ESD), EN 61000-4-3 (RS), EN 61000-4-4 (burst), EN 61000-4-5 (surge), EN 61000-4-6 (conducted), EN 61000-4-8 (Fields), EN 61000-4-11 (Dips) |
| Vibration resistance IEC 60068-2-6          | 1 g according to EN 50178 |                                    |                                                                                                                                                          |

## Insulation coordination

|                                  |                       |                                   |        |
|----------------------------------|-----------------------|-----------------------------------|--------|
| Surge voltage category           | II                    | Pollution severity                | 2      |
| Protection class                 | I, with PE connection | Insulation voltage, input/output  | 3 kV   |
| Insulation voltage input / earth | 2 kV                  | Insulation voltage output / earth | 0.5 kV |

## Electrical safety (applied standards)

|                                             |                           |                              |                                                        |
|---------------------------------------------|---------------------------|------------------------------|--------------------------------------------------------|
| For use with electronic equipment           | Acc. to EN50178 / VDE0160 | Electrical machine equipment | Acc. to EN60204                                        |
| Protection against dangerous shock currents | Acc. to VDE0106-101       | Safety extra-low voltage     | SELV acc. to IEC 60950-1, PELV according to EN 60204-1 |

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|                                                             |                                    |                                                    |                            |
|-------------------------------------------------------------|------------------------------------|----------------------------------------------------|----------------------------|
| Protective separation / protection against electrical shock | VDE0100-410 / acc. to DIN57100-410 | Safety transformers for switch-mode power supplies | According to EN 61558-2-16 |
|-------------------------------------------------------------|------------------------------------|----------------------------------------------------|----------------------------|

## Connection data (input)

|                                                       |                     |                                           |                     |
|-------------------------------------------------------|---------------------|-------------------------------------------|---------------------|
| Connection system                                     | Screw connection    | Number of terminals                       | 4 for L1/L2/L3/PE   |
| Conductor cross-section, AWG/kcmil , max.             | 12 AWG              | Conductor cross-section, AWG/kcmil , min. | 26 AWG              |
| Wire connection cross section, flexible (input), max. | 2.5 mm <sup>2</sup> | Conductor cross-section, flexible , min.  | 0.5 mm <sup>2</sup> |
| Conductor cross-section, rigid , max.                 | 6 mm <sup>2</sup>   | Conductor cross-section, rigid , min.     | 0.5 mm <sup>2</sup> |
| Tightening torque, min.                               | 0.5 Nm              | Tightening torque, max.                   | 0.6 Nm              |

## Connection data (output)

|                                           |                    |                                           |                     |
|-------------------------------------------|--------------------|-------------------------------------------|---------------------|
| Connection system                         | Screw connection   | Number of terminals                       | 7 (++,--,13,14)     |
| Conductor cross-section, AWG/kcmil , max. | 8 AWG              | Conductor cross-section, AWG/kcmil , min. | 22 AWG              |
| Conductor cross-section, flexible , max.  | 10 mm <sup>2</sup> | Conductor cross-section, flexible , min.  | 2.5 mm <sup>2</sup> |
| Conductor cross-section, rigid , max.     | 16 mm <sup>2</sup> | Conductor cross-section, rigid , min.     | 0.5 mm <sup>2</sup> |
| Tightening torque, min.                   | 0.5 Nm             | Tightening torque, max.                   | 0.6 Nm              |

## Signalling

|                  |                                                       |                           |                    |
|------------------|-------------------------------------------------------|---------------------------|--------------------|
| Floating contact | Yes                                                   | Contact load (NO contact) | max. 30 V DC / 1 A |
| Relay on/off     | Output voltage<br>>21.6 V DC/ <20.4 V DC,<br>overload |                           |                    |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002540    | ETIM 9.0    | EC002540    |
| ETIM 10.0   | EC002540    | ECLASS 14.0 | 27-04-07-01 |
| ECLASS 15.0 | 27-04-07-01 |             |             |

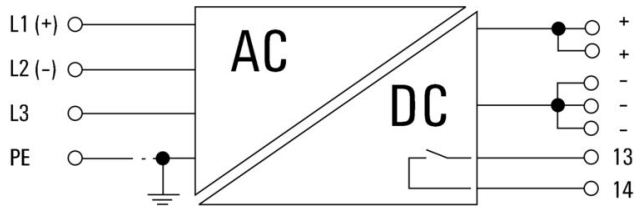
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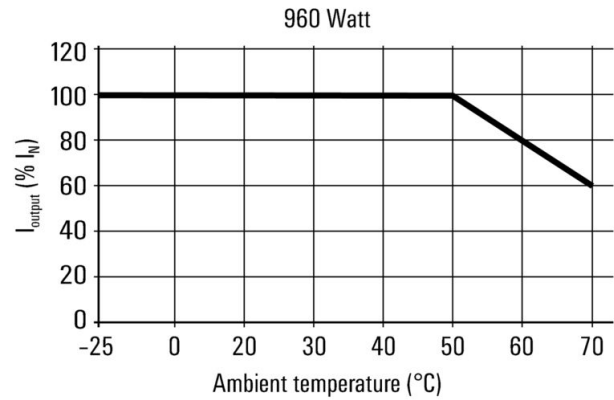
## Drawings

### Electric symbol

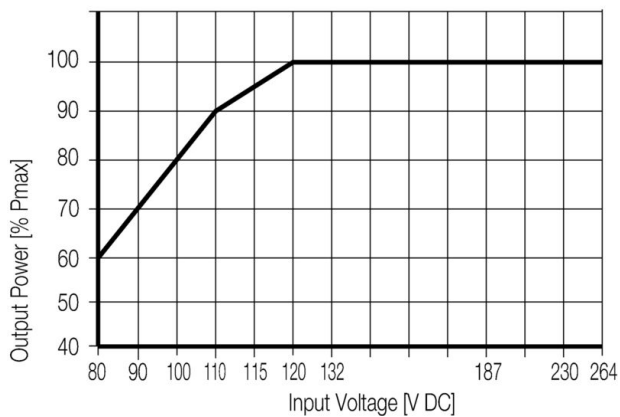


Pay attention to polarity of DC connection

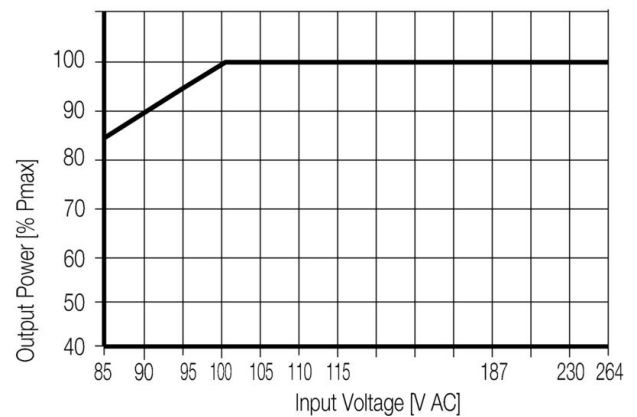
### Derating curve



### Derating curve



### Derating curve



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## Accessories

## Slotted screwdriver



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

## General ordering data

|            |                            |                                                                     |
|------------|----------------------------|---------------------------------------------------------------------|
| Type       | SDIS SLIM 0.6X3.5X100      | Version                                                             |
| Order No.  | <a href="#">2749610000</a> | Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118896350              | thickness (A): 0.6 mm                                               |
| Qty.       | 1 ST                       |                                                                     |

## Crosshead screwdriver, Pozidrive

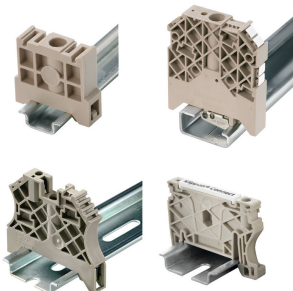


VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

## General ordering data

|            |                            |                                                                   |
|------------|----------------------------|-------------------------------------------------------------------|
| Type       | SDIK SLIM PZ1 X 80         | Version                                                           |
| Order No.  | <a href="#">2749670000</a> | Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1 |
| GTIN (EAN) | 4050118896411              |                                                                   |
| Qty.       | 1 ST                       |                                                                   |

## End bracket



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

## General ordering data

|            |                            |                                                             |
|------------|----------------------------|-------------------------------------------------------------|
| Type       | WEW 35/1 V0 GF SW          | Version                                                     |
| Order No.  | <a href="#">1478990000</a> | End bracket, black, TS 35, V-0, Wemid, Width: 12 mm, 130 °C |
| GTIN (EAN) | 4050118286892              |                                                             |
| Qty.       | 50 ST                      |                                                             |

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|            |                            |                                                             |
|------------|----------------------------|-------------------------------------------------------------|
| Type       | WEW 35/2 V0 GF SW          | Version                                                     |
| Order No.  | <a href="#">1479000000</a> | End bracket, black, TS 35, V-0, Wemid, Width: 8 mm, 130 °C  |
| GTIN (EAN) | 4050118286779              |                                                             |
| Qty.       | 50 ST                      |                                                             |
| Type       | WEW 35/1 SW                | Version                                                     |
| Order No.  | <a href="#">1162600000</a> | End bracket, black, TS 35, V-2, Wemid, Width: 12 mm, 100 °C |
| GTIN (EAN) | 4032248972630              |                                                             |
| Qty.       | 50 ST                      |                                                             |